

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK 03/00516

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N15/10 C12P21/00 C07H21/00 C07B61/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE, EMBASE, CHEM ABS Data, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 02 074929 A (KANAN MATTEW W;GARTNER ZEV J ; LIU DAVID R (US); HARVARD COLLEGE () 26 September 2002 (2002-09-26) figures 1-57	1-65
P,X	WO 02 103008 A (GOUILAEV ALEX HAAHR ;NOERREGAARD-MADSEN MADS (DK); SLOEK FRANK ABI) 27 December 2002 (2002-12-27) figure 1	1-65
X	WO 99 51546 A (HARVARD COLLEGE ;JACOBSEN ERIC N (US); SIGMAN MATTHEW S (US)) 14 October 1999 (1999-10-14) claims 1-54	1-65
X	WO 00 23458 A (UNIV LELAND STANFORD JUNIOR) 27 April 2000 (2000-04-27) claims 1-14	1-65
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified).

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

16 December 2003

Date of mailing of the international search report

18. 02. 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

FERNANDO FARIETA /EÖ

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK 03/00516

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 196 46 372 C (EVOTEC BIOSYSTEMS GMBH) 19 June 1997 (1997-06-19) figures 1-8 ---	1-65
X	WO 00 61775 A (SERGEEV PAVEL) 19 October 2000 (2000-10-19) figure 1 ---	1-65
X	SUMMERER DANIEL ET AL: "DNA-templated synthesis: more versatile than expected." ANGEWANDTE CHEMIE (INTERNATIONAL ED. IN ENGLISH) GERMANY 4 JAN 2002, vol. 41, no. 1, 4 January 2002 (2002-01-04), pages 89-90, XP002265218 ISSN: 0570-0833 schemes 1-4 ---	1-65
X	GARTNER ZEV J ET AL: "Multistep small-molecule synthesis programmed by DNA templates." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. UNITED STATES 4 SEP 2002, vol. 124, no. 35, 4 September 2002 (2002-09-04), pages 10304-10306, XP002265219 ISSN: 0002-7863 figures 1-3 ---	1-65
X	VISSCHER J ET AL: "Template-directed synthesis of acyclic oligonucleotide analogues." JOURNAL OF MOLECULAR EVOLUTION. UNITED STATES 1988 DEC-1989 FEB, vol. 28, no. 1-2, December 1988 (1988-12), pages 3-6, XP002265226 ISSN: 0022-2844 figure 1 ---	1-65
X	WALDER J A ET AL: "Complementary carrier peptide synthesis: general strategy and implications for prebiotic origin of peptide synthesis." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. UNITED STATES JAN 1979, vol. 76, no. 1, January 1979 (1979-01), pages 51-55, XP002265221 ISSN: 0027-8424 figures 1,3 ---	1-65
P,A	WO 02 102820 A (ABILGAARD SLOEK FRANK ;HYLDTOFT LENE (DK); NUEVOLUTION AS (DK); PE) 27 December 2002 (2002-12-27) claim 1 ---	1-65

INTERNATIONAL SEARCH REPORT

International Application No

PCT/DK 03/00516

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 804 563 A (LI GE ET AL) 8 September 1998 (1998-09-08) claims 1-14 ---	1-65
A	WO 98 56904 A (RIGEL PHARMACEUTICALS INC) 17 December 1998 (1998-12-17) figure 1 ---	1-65
A	GARTNER Z J ET AL: "The generality of DNA-templated synthesis as a basis for evolving non-natural small molecules." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. UNITED STATES 18 JUL 2001, vol. 123, no. 28, 18 July 2001 (2001-07-18), pages 6961-6963, XP002265222 ISSN: 0002-7863 figures 1-5 ---	1-65
A	KEILER K C ET AL: "Role of a peptide tagging system in degradation of proteins synthesized from damaged messenger RNA." SCIENCE. UNITED STATES 16 FEB 1996, vol. 271, no. 5251, 16 February 1996 (1996-02-16), pages 990-993, XP002265223 ISSN: 0036-8075 figures 1-3 -----	1-65

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DK 03/00516

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02074929	A	26-09-2002	US 2003113738 A1 WO 02074929 A2	19-06-2003 26-09-2002
WO 02103008	A	27-12-2002	WO 02103008 A2 WO 02102820 A1 US 2003143561 A1 WO 03078625 A2 WO 03078445 A2 WO 03078626 A2 WO 03078050 A2 WO 03078446 A2 WO 03078627 A2	27-12-2002 27-12-2002 31-07-2003 25-09-2003 25-09-2003 25-09-2003 25-09-2003 25-09-2003 25-09-2003
WO 9951546	A	14-10-1999	US 6316616 B1 AU 760340 B2 AU 3379099 A BR 9909900 A CA 2326387 A1 CN 1305443 T CZ 20003543 A3 EP 1066228 A1 HU 0102442 A2 JP 2002510554 T NZ 507186 A WO 9951546 A1 US 2002102612 A1	13-11-2001 15-05-2003 25-10-1999 09-01-2001 14-10-1999 25-07-2001 12-09-2001 10-01-2001 28-10-2001 09-04-2002 28-11-2003 14-10-1999 01-08-2002
WO 0023458	A	27-04-2000	AU 1318400 A CA 2346989 A1 EP 1123305 A1 WO 0023458 A1	08-05-2000 27-04-2000 16-08-2001 27-04-2000
DE 19646372	C	19-06-1997	DE 19646372 C1	19-06-1997
WO 0061775	A	19-10-2000	WO 0061775 A1 AU 2951599 A CA 2403209 A1 EP 1208219 A1 US 2003104389 A1	19-10-2000 14-11-2000 19-10-2000 29-05-2002 05-06-2003
WO 02102820	A	27-12-2002	WO 02103008 A2 WO 02102820 A1 US 2003143561 A1	27-12-2002 27-12-2002 31-07-2003
US 5804563	A	08-09-1998	AU 686785 B2 AU 2156595 A CA 2180844 A1 EP 0739486 A1 JP 9511486 T WO 9519567 A1 US 2003104360 A1 ZA 9500260 A	12-02-1998 01-08-1995 20-07-1995 30-10-1996 18-11-1997 20-07-1995 05-06-2003 28-09-1995
WO 9856904	A	17-12-1998	US 2002064798 A1 AU 7830298 A WO 9856904 A1 US 2001036638 A1	30-05-2002 30-12-1998 17-12-1998 01-11-2001